## Approved for Renase 2005/04/40 CIA-RDF83M00171R000800140002-3

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#### The Value of Including Estimates of Precision in Finished Intelligence

It has often been noted in RMS that resource management of the intelligence community is organized around the technical collection systems. There is wide agreement that this is suboptimal and that instead we should manage resources to accomplish our objective, support to intelligence users. We do attempt to assess how well collection improvements serve this purpose ty estimating the increased intelligence information that may be obtained from improvements to the collection system, but no one pretends that this is optimal since only those improvements in our support to users that can be obtained through improvements to the technical collectors are considered. Though attempts have been made, it is not sufficient to simply extend this emphasis or technical collection initiatives to all collection initiatives since the maxuseful and cost-effective improvements in support to users may not even be discovered through this approach. Nor is it sufficient to ask how to improve processing, exploitation, dissemination, or production for the same reason -there is no guarantee that all of the most promising opportunities for improving support will be considered because the focus of this approach as a means rather than ends.

I have come to believe that the principal reason that the management of the Intelligence Community is collector oriented is that there is information to be had about the benefits of improving the collectors and, more important there is little information available about how to improve user support. The information that would appear at first glance to be most desirable for improving intelligence community performance against its objective is direct feedback from the decisionmaker about the usefulness of our support. Here is abstract, but very difficult to actually accomplish — partly because the abstract, but very difficult to actually accomplish — partly because the principally because the outcome measure is difficult to define in a measure way.

# Approved For Release 2005/04/18: CIA-RDF3M00171R000800140002-3

### The Value of Including Estimates of Precision in Finished Intelligence

The usefulness of additional intelligence support, or any added information for that matter, to a decisionmaker can be defined operationally as changing the assessment of

- o <u>consequences</u>: a changed assessment of the consequences to be expected from selecting alternative courses of action (costs, benefits, and risks),
- o uncertainty: an increase or decrease in the uncertainty surrounding the estimates of costs, risks, benefits anticipated from alternative courses of action (note that support is improved by a more accurate portrayal of uncertainty rather than by simply maximizing confidence by minimizing uncertainty this may not be evident to the decisionmaker),
- o <u>alternatives</u>: the addition or elimination of alternative courses of action from the feasible set, or
- o timing: changes in the timing of the decision (finding that it can be made earlier or later) or changes in the expected timing of the consequences of selecting an alternative (later or earlier arrival of costs, benefits, and risks).

We have conducted user surveys to obtain this information but the results have been disappointing, primarily because there is no clear audit trail available to define the affect of intelligence information on a decision and also because there is no unitary actor to query for informal recollection of these effects. It is difficult as well to identify intelligence shortfalls because there is a strong interaction between what can be done for the decisionmaker and what they in turn request or expect. Because the demand for intelligence is ephemeral and easily influenced by expections and changing events, it is difficult to distinguish highly useful intelligence from barely useful intelligence and close to impossible to make finer distinctions. Furthermore, to be usefully precise, demand must be expressed as a result of painstaking internal comparisons such as those made when operating under a budget. No such discipline is imposed on the intelligence user and this inevitably diminishes the value of user surveys.

How then can we develop an integrated criterion for allocating resources in the community? Moving back from the user one step to the production of intelligence could be very useful if information were readily available about the difficulties in addressing intelligence issues that the shortages or imprecision of intelligence information have caused. That information is currently not available. Judging from the intelligence products I have examined over the past 2-1/2 years, the current production process disguises

## ADMINISTRATIVE-HITERNAL USE UNLY

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in Finished Intelligence

that small amount of information about uncertainty that would ordinarily be evident to the reader by suppressing disagreements uncovered through coordination by resorting to vaguer language or by eliminating those aspects of the issue that are in dispute from the final version. This is exacerbated by a style of prose that is highly readable but designed to disguise differences in certainty from one topic to another by giving a uniform impression of certainty mitigated by the extensive use of qualifiers in the text and by including precise statements about highly conditional events. (This is especially misleading when the likelihood of the conditioning events is poorly known.)

An approach that would provide substantially more information on which to base resource decisions better would be to include formal assessments of the accuracy and precision in the final product using, where possible, statistical measures of bias and variation. Where the methods of statistics and measures of bias and variation. Where the methods of statistics and it would not be used (such as political analysis in some instances), engineering could not be used (such as political analysis in some instances), it would be sufficient to describe the range of possible values. In that case it would be necessary to include some discussion of where in that range the best estimate lies and why this is so. If there is no possibility of specifying upper and lower bounds that result in a usefully narrow range, a specifying upper and lower bounds that result in a usefully narrow range, a subjective 90% confidence interval could be specified. This is done by subjective 90% confidence interval could be specified. This is done by that the analyst expects will include the correct value 90% of the time.

This approach would provide a wealth of information on which to base resource allocation decisions. It would also substantially improve support to users in two ways:

- o they would understand much better the uses and limits of the intelligence they receive and,
- o an additional avenue would be provided to the intelligence analyst for communicating concern about events with poorly estimated probabilities that are important nonetheless for decisionmaking.

An alternative implementation of this same approach would be to have the process of formally specifying the accuracy and precision of intelligence assessments assigned to a separate group of intelligence analysts. They would be chosen for their familiarity with the bias and imprecision of intelligence information as well as their ability to estimate the errors introduced by the estimating procedures through sensitivity testing and contingency analysis. An advantage of establishing a separate group for this function is that the group advantage of establishing a separate applications must in need of improvement could also be tasked to identify those applications must in need of improvement improvement.